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(19) **United States**(12) **Patent Application Publication****Wang et al.**(10) **Pub. No.: US 2016/0173869 A1**(43) **Pub. Date: Jun. 16, 2016**(54) **MULTI-CAMERA SYSTEM CONSISTING OF  
VARIABLY CALIBRATED CAMERAS**(52) **U.S. Cl.**CPC ..... *H04N 17/002* (2013.01); *H04N 5/2258*  
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**ABSTRACT**(73) Assignee: **Nokia Corporation**(21) Appl. No.: **14/570,090**(22) Filed: **Dec. 15, 2014****Publication Classification**(51) **Int. Cl.***H04N 17/00* (2006.01)*H04N 5/225* (2006.01)

An apparatus comprises a main camera configured to produce a high quality image; at least two auxiliary cameras configured to produce images of lower quality; and electronic circuitry linked to the main camera and the at least two auxiliary cameras, the electronic circuitry comprising a controller having a memory and a processor, the electronic circuitry configured to operate on data pertaining to the high quality image and pertaining to the images of lower quality to produce an enhanced high quality image as output data.

